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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/460,197	12/13/1999	JOHN SPENCER CUNNINGHAM	A65-25311	2142
	590 05/08/2002			
HONEYWELL INTERNATIONAL INC. 101 COLUMBIA ROAD P O BOX 2245 MORRISTONEL NI. 07062-2245			EXAMINER	
			NGUYEN, KEVIN M	
MORRISTOWN, NJ 07962-2245			ART UNIT	PAPER NUMBER
			2674	
			DATE MAILED: 05/09/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
· Office Action Summary	09/460,197	CUNNINGHAM ET AL.		
· Office Action Summary	Examiner	Art Unit		
The MAN INC DATE of this annual of the	Kevin M. Nguyen	2674		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a lipy within the statutory minimum of thir will apply and will expire SIX (6) MON accause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. & 133)		
1)⊠ Responsive to communication(s) filed on <u>25 F</u>	Fehruary 2002			
· <u> </u>	nis action is non-final.			
3)☐ Since this application is in condition for allowa	ance except for formal ma	tters, prosecution as to the merits is		
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.		
4)⊠ Claim(s) <u>33-52</u> is/are pending in the application	on.			
4a) Of the above claim(s) <u>1-32</u> is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>33-52</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.			
9)☐ The specification is objected to by the Examiner	r.			
10) ☐ The drawing(s) filed on is/are: a) ☐ accep		he Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.				
12) The oath or declaration is objected to by the Exa	aminer.			
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. 8	S 119(a)-(d) or (f)		
a) ☐ All b) ☐ Some * c) ☐ None of:		3 (2) (2) (3)		
1. Certified copies of the priority documents	s have been received.			
2. Certified copies of the priority documents		oplication No.		
3. Copies of the certified copies of the priori		•		
application from the International Bur * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	· ·		
14) Acknowledgment is made of a claim for domestic	•			
 a) The translation of the foreign language prov 15) Acknowledgment is made of a claim for domestic 	• •			
Attachment(s)	-			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. 	5) Notice of Ir	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)		
S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Act	tion Summary	Part of Paper No. 6		

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DETAILED ACTION

Election/Restrictions

1. This Office Action is made in response to applicant's <u>RESPONSE TO ELECTION</u>

<u>REQUIREMENT</u>, filed on 2/25/2002 (entered into the file wrapper as Paper No. 5).

2. Applicant's election without traverse of Group III corresponding to claims 33-52 in Paper No. 5 is acknowledged.

Claims 1-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected Group I and Group II. Election was made without traverse in Paper No. 5.

The requirement is still deemed proper and is therefore made FINAL.

Information Disclosure Statement

3. The information disclosure statement filed 12/13/1999 which has been placed in the application file, the information referred to therein has been considered as to the merits.

Claim Objections

4. Claims 34, 35, 39, 42, 44, 45, 49 and 52 are objected to because of the following informalities: Open GL and VAPS are undefined. Appropriate correction is required.

Drawings

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the dynamic switches, occlusion memory, VAPS formats, linking generated code, "what are MPD and MPCD

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stand for ?" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 33-35, 37-39, 42-45, 47-49 and 52 are rejected under 35 U.S.C. 102(b) as being anticipated by Tomiyasu (US 5,138,305).
- 8. As to claims 33 and 38, Tomiyasu teaches a computer device having a keyboard 15, a CPU 11, a memory 10, and a CRT 16 for driving many display devices such as a cathode ray tube (CRT) 16, a liquid crystal display (LCD) 17, an electroluminescent display (ELD) 18, and a plasma display panel (PDP) 19. When the signals are all "0", the CRT is selected as show in Fig. 4. When the signals are all "1", the LCD is selected, and when signals FLT and AFT are "1" and signal DSC is "0", the ELD is selected (linking generated code from a formats to a standard library, col. 5, lines 16-19). Display controller 12 comprises a change control circuit 21 which is supplied with change signals (driving a plurality of displays of different types from output of a graphics library, col. 4, line24-25). Keyboard controller 14 controls the switching operation of display

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units in response to the signals FLT, AFL, and DSC (dynamically switching between a display in real time, col. 4, lines 26-28).

- 9. As to claims 34 and 39, Tomiyasu teaches font memory, V-RAM 10, as claimed as inherently a graphics library having OpenGL.
- 10. As to claim 35, Tomiyasu teaches font memory, V-RAM 10, as claimed as inherently VAPS formats.
- 11. As to claim 37, Tomiyasu teaches display controller 12 as claimed as driving hybrid raster displays.
- 12. As to claims 43 and 48, Tomiyasu teaches a method for a computer device having a keyboard 15, a CPU 11, a memory 10, and a CRT 16 for driving many display devices such as a cathode ray tube (CRT) 16, a liquid crystal display (LCD) 17, an electroluminescent display (ELD) 18, and a plasma display panel (PDP) 19. When the signals are all "0", the CRT is selected as show in Fig. 4. When the signals are all "1", the LCD is selected, and when signals FLT and AFT are "1" and signal DSC is "0", the ELD is selected (linking generated code from a formats to a standard library, col. 5, lines 16-19). Display controller 12 comprises a change control circuit 21 which is supplied with change signals (driving a plurality of displays of different types from output of a graphics library, col. 4, line24-25). Keyboard controller 14 controls the switching operation of display units in response to the signals FLT, AFL, and DSC (dynamically switching between a display in real time, col. 4, lines 26-28).
- 13. As to claim 44, Tomiyasu teaches a method of linking font memory, V-RAM 10, as claimed as linking to an OpenGL.

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14. As to claims 45 and 52, Tomiyasu teaches a method of linking when the signals are all "0", the CRT is selected as show in Fig. 4. When the signals are all "1", the LCD is selected, and when signals FLT and AFT are "1" and signal DSC is "0", the ELD is selected (col. 5, lines 16-19).

- 15. As to claim 47, Tomiyasu teaches a method for display controller 12 as claimed as driving hybrid raster displays.
- 16. As to claim 49, Tomiyasu teaches a method for font memory, V-RAM 10, as claimed as inherently linking to an OpenGL graphics library.

Claim Rejections - 35 USC § 103

- 17. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 18. Claims 36, 40, 41, 46, 50 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tomiyasu in view of Tokuhashi et al (US 6,137,457).
- 19. As to claim 36, Tomiyasu teaches all of the claimed limitation of claims 33, 38, except for driving means comprise stroke video drivers. However, Tokuhashi et al teaches many controllers 2-1, 2-2, 2-3 for head up display (HUD) devices 1 (stroke video drivers as claimed, figure 4, col. 6, lines 12-22). It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate the additional controllers for HUDs (1) taught by Tokuhashi et al for multiple displays of Tomiyasu's

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system because this would couple to one computer 20 which can be collectively and forcibly controlled by the computer 20 (col. 6, lines 14-19 of Tokuhashi et al).

- 20. As to claims 41 and 51, Tomiyasu teaches a keyboard controller 14 which controls the switching operation of display units in response to the signals FLT, AFL, and DSC. Tokuhashi et al teaches the mode switching control circuit 27 that was controlled by a computer 20 (figure 6) or a remote control 30 (figure 8). It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate a keyboard controller 14 taught by Tomiyasu for the computer 20 of Tokuhashi et al's system because this would couple to one computer 20 which can be collectively and forcibly controlled by the computer 20 (col. 6, lines 14-19 of Tokuhashi et al).
- 21. As to claims 46 and 50, Tomiyasu teaches parameter memory 22 (col. 4, lines 29-52). Tokuhashi et al teaches the controllers 2-1, 2-2, 2-3 for head up display (HUD) devices 1 (stroke video drivers as claimed, figure 4, col. 6, lines 12-22). It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate the additional memory 22 taught by Tomiyasu for multiple displays of Tokuhashi's system because this would couple to one computer 20 which can be collectively and forcibly controlled by the computer 20 (col. 6, lines 14-19 of Tokuhashi et al).

Conclusion

22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-**

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6209. The examiner can normally be reached on MON-FRI from 9:00-5:00 with

alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard A Hjerpe can be reached on 703-305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Technology Center 2600 Customer Service Office

whose telephone number is (703) 306-0377.

Kevin M. Nguyen Examiner

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RICHARD HJERPE

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SUPERVISORY PATENT EXAMINER

LEUMICLOGY CENTER 2600